

KW	cytopathy; virus; HIV; infection.	Db	61 TQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE 101
OS	Nostoc ellipsosporum.	Qy	61 TQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE 101
PN	US5843882-A.		
PD	01-DEC-1998.		
PF	27-APR-1995; 429965.		
PR	27-APR-1995; US-299965.		
PA	(USSH) US DEPT HEALTH & HUMAN SERVICES.		
PI	Boyd MR, Gustafson KR, McMahon JB, Shoemaker RH;		
DR	WPI: 99-044625/04.		
DR	N-PSDB; V34401.		
PT	Nostoc ellipsosporum proteins or peptide(s) - with antiviral activity		
PS	Claim 7; Column 25-26; 30pp; English.		
CC	This sequence represents an antiviral protein, designated cyanovirin, from Nostoc ellipsosporum. The antiviral protein, or peptide of at least 9 amino acid residues, is used to inhibit the infectivity, replication and cytopathic effects of viruses, especially HIV-1 or HIV-2, in the treatment or prevention of viral infections.		
SQ	Sequence 101 AA;		
	Query Match 3 Best Local Similarity 100.0% Score 683; DB 1; Length 101; Matches 101; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
Qy	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
Db	61 TQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE 101		
Qy	61 TQLAGSSELAEECKTRAQQFVSTKINLDDHIANIDGTLKYE 101		
	Query Match 3 Best Local Similarity 100.0% Score 683; DB 1; Length 101; Matches 101; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
Qy	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
	Query Match 3 Best Local Similarity 100.0% Score 683; DB 1; Length 101; Matches 101; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
Qy	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
	Query Match 3 Best Local Similarity 100.0% Score 683; DB 1; Length 101; Matches 101; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
Qy	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
	Query Match 3 Best Local Similarity 100.0% Score 683; DB 1; Length 101; Matches 101; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
Qy	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
	Query Match 3 Best Local Similarity 100.0% Score 683; DB 1; Length 101; Matches 101; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
Db	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		
Qy	1 LGKFSQTCYNSAIQGSVLTSCERTNGGNTSISIDLNSTVENDGSLKWPNSNFETCRN 60		

PT	activity	Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101
PS	Disclosure; Column 27-28; 30pp; English.		
CC	This sequence represents a synthetic fusion protein comprising the		
CC	antiviral protein, designated cyanovirin, from Nostoc elliposporum		
CC	with a FLAG epitope peptide fused at its N-terminus. The antiviral		
CC	protein, or peptide of at least 9 amino acid residues, is used to		
CC	inhibit the infectivity, replication and cytopathic effects of viruses		
CC	especially HIV-1 or HIV-2, in the treatment or prevention of viral		
CC	infections. Sequence 109 AA;		
SQ	Query Match 100.0%; Score 683; DB 1; Length 109; Best Local Similarity 100.0%; Pred. No. 8.24e-60; Indels 0; Gaps 0; Matches 101; Conservative 0; Mismatches 0;		
Db	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	RESULT 7	PT
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	ID W26541; standard; Protein; 618 AA.	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	AC W26541;	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	DT 12-JAN-1998 (first entry)	
Db	Query Match 100.0%; Score 683; DB 1; Length 109; Best Local Similarity 100.0%; Pred. No. 8.24e-60; Indels 0; Gaps 0; Matches 101; Conservative 0; Mismatches 0;	DE Trypanosoma cruzi antigen.	
Qy	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	KW Antigen; epitope; vaccine; protective immunity; Chagas disease;	
Dt	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	KW diagnosis; therapy; immunosassay.	
Qy	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	OS Trypanosoma cruzi Tulahean strain C2.	
Db	Query Match 100.0%; Score 683; DB 1; Length 109; Best Local Similarity 100.0%; Pred. No. 8.24e-60; Indels 0; Gaps 0; Matches 101; Conservative 0; Mismatches 0;	PN W097184/5-A1.	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	PD 22-MAY-1997.	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	PP 14-NOV-1996; U18624.	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	PR 14-NOV-1995; US-557309.	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	PA (CORI-) CORIXA CORP.	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	PI Houghton RE; Lodes MJ; Reed SG; Skeiky YAW; WPI; 97-289413/26.	
Db	Query Match 100.0%; Score 683; DB 1; Length 109; Best Local Similarity 100.0%; Pred. No. 8.24e-60; Indels 0; Gaps 0; Matches 101; Conservative 0; Mismatches 0;	DR N-PSDB; T69167.	
Qy	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	PT Diagnosing Trypanosoma cruzi infection by detecting antibodies to	
Dt	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	novel antigens - which are useful in vaccines to provide protective	
Qy	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	PT immunity against Chagas' disease.	
Db	Query Match 100.0%; Score 683; DB 1; Length 109; Best Local Similarity 100.0%; Pred. No. 8.24e-60; Indels 0; Gaps 0;	PT Disclosure; Page 88-91; 110PP; English.	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	CC This polypeptide sequence comprises a full-length antigen of	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	CC Trypanosoma cruzi, identified by sequencing a DNA clone (see T69167)	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	CC obtained by screening a Trypanosoma cruzi genomic expression library	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	CC with pools of sera from infected individuals. T. cruzi antigens	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	CC (see W26530-41), or epitope-containing repeat sequences (see W19094-102, W19079-86 and W26542-44) of native antigens, can be used in a	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	CC variety of immunoassays for detecting T. cruzi infection in a	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	CC blood, serum, plasma, saliva, cerebrospinal fluid or urine sample.	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	CC The polypeptides are also useful in vaccines and pharmaceutical	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	CC compositions for inducing protective immunity against Chagas	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	CC disease. They can be produced by expression in transformed or	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	CC transfected host cells.	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	CC Sequence 618 AA;	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	Query Match 12.9%; Score 88; DB 1; Length 618;	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	Best Local Similarity 30.0%; Pred. No. 9.36e+00.	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	Matches 15; Conservative 14; Mismatches 18; Indels 3; Gaps 3;	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	Db 350 GGNLISLYENKSEGSKYGLAVHVTOLERIKTVLKWQELDEALPCTST 399	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	Qy 15 GSVLTSTCE-RUNGGNTNTSSIDLNVIENYDGSLK-WQPSNFIECRN 61	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	Location/Qualifiers	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	FT 124	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	FT /note= "Asp in DBA/J, C3H and BALB/C mice, and	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	FT Ala in C57BL/6J"	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	RESULT 8	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	ID W76700 standard; Protein; 224 AA.	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	AC W76700;	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	DT 02-FEB-1999 (first entry)	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	DE Mouse antioxidant protein 2 (AOP2).	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	CC Antioxidant protein 2; AOP2; mouse; atherosclerosis; Ath1;	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	KW heart disease; diagnosis; therapy; drug screening.	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	OS Mus sp.	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	FT Key	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	FT Misc_difference 124	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	FT /note= "Asp in DBA/J, C3H and BALB/C mice, and	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	FT Ala in C57BL/6J"	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	RESULT 8	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	ID W09843666-A1	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	AC W09843666;	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	DT 08-OCT-1998;	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	DE 006666.	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	PR 02-APR-1997; US-040897.	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	PA (BWH) BRIGHAM & WOMENS HOSPITAL.	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	PA (JACK-) JACKSON LAB.	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	PI Baier DR; Paigen B;	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	DR W98-156207/48.	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	PR N-PSDB; V62048.	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	PT New isolated antioxidant protein 2 gene - used to develop products	
Dt	9 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 68	PT for modulating antioxidant activity in vitro and for treatment of	
Qy	1 LGKFSQTCYNSAIGQSVLTSTCERTNGYNTSSIDLNVIENYDGSLKWQPSNFIECRN 60	PT oxidative damage, atherosclerosis, and heart disease	
Dt	69 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 109	CC Claim 5; Page 115; 139pp; English.	
Qy	61 TOLAGSSLEAAECKTRAQFVSTKINDDHTANIDGTLKYE 101	CC This is the amino acid sequence of novel murine antioxidant protein 2 (AOP2), as deduced from an Aop2 cDNA sequence (see V62048). The	

CC AOP2 gene maps to the previously described atherosclerosis susceptibility locus, Ath1, and is shown to be the same as Lte4.
 CC The inventors have identified 2 different alleles of Ath1.
 CC responsible for a difference in atherosclerosis susceptibility between mouse strains. Sequencing revealed a single base pair difference between these alleles, with inbred mouse strains C3H and BALB/C carrying the resistant allele, and C57BL/6 mice carrying the susceptible allele. The human homologue of AOP2 (see v62047) has also been identified. The discovery of mammalian AOP2 genes makes possible a variety of uses e.g. development of reagents (antibodies, expression vectors, cell lines, congenic and transgenic mice) that may be used in the diagnosis and treatment of atherosclerosis and related disease states. Methods are claimed for diagnosing a predisposition to atheroslerotic disease (by determining the antioxidant activity of AOP2 polypeptide in a sample), for screening compounds for AOP2 stimulatory activity, anti-oxidant, stimulatory activity or anti-atherosclerotic activity, and for increasing AOP2 function in a cell by providing a nucleic acid encoding human AOP2. It is possible to employ AOP2 protein and DNA compositions in the treatment of oxidative damage, atherosclerosis and heart disease. Sequence 224 AA;

Query Match 12.4%; Score 85; DB 1; Length 224;
 Best Local Similarity 30.6%; Pred. No. 1.64e+01;
 Matches 15; Conservative 14; Indels 2; Gaps 2;
 AC 34 GILFSHPRDFTPVC-TTEGLRAAKLAPEFAKRNLIALSIDSVEDHLA 81
 DT 04-AUG-1993 (first entry)
 DB 45 GSLKQPSNFIECRNTQLAGSSELAECKTRAAQQFVSTKIN-LDDHIA 92

RESULT 10
 ID R34196 standard; Protein: 250 AA.
 AC R34196;
 DT 04-AUG-1993 (first entry)
 DE O-CSF.
 KW Osteoclast colony stimulating factor; O-CSF; hypercalcemia; inducing; murine; mammary; tumour; taurate-resistant acid phosphatase; TRAP; progenitor; bone marrow; SDS-PAGE.
 CC This sequence represents osteoclast colony stimulating factor (O-CSF) which was isolated from conditioned medium of a hypercalcemia-inducing murine mammary tumour. O-CSF protein is capable of stimulating growth of taurate-resistant acid phosphatase (TRAP)-positive osteoclast progenitors in bone marrow cell cultures. O-CSF has an apparent molecular weight of approx. 15-25 kD, with a peak of biological activity at approx. 20 kD, as determined by SDS-PAGE and biological assay. The O-CSF protein may be purified from the culture medium of C3H-3 cells and has an osteoclast progenitor stimulating activity of at least 660,000 U/mg. Sequence 250 AA;

Query Match 12.4%; Score 85; DB 1; Length 250;
 Best Local Similarity 30.6%; Pred. No. 1.64e+01;
 Matches 15; Conservative 14; Indels 2; Gaps 2;
 AC 27 GILFSHPRDFTPVC-TTEGLRAAKLAPEFAKRNLIALSIDSVEDHLA 74
 DT 29-JUL-1997 (first entry)
 DB 45 GSLKQPSNFIECRNTQLAGSSELAECKTRAAQQFVSTKIN-LDDHIA 92

RESULT 11
 ID W09880 standard; Protein: 318 AA.
 AC W09880;
 DT 09-NOV-1995; US-555755.
 DE GFE-1.
 KW ACC oxidase; 1-aminocyclopropane-1-carboxylate oxidase; antisense; ethylene; transgenic plant; Pelargonium x domesticum;
 KW in vitro propagation; tissue culture; ripening.
 OS Not identified.
 PN WO717429-A1.
 PD 15-MAY-1997.
 PR 08-NOV-1996; W17954.
 CC This is the amino acid sequence of novel human antioxidant protein 2 (AOP2), as deduced from the AOP2 gene sequence (see 'v62047').
 CC The human AOP2 gene is the homologue of the novel murine Aop2 gene (see v62048). Studies indicate that the murine Aop2 gene is the same as the Lte4 gene and that Aop2 is the gene responsible for the Ath1 trait (a predisposition to atherosclerotic disease) in mice.
 CC The discovery of human AOP2 gene makes possible a variety of uses for the protein and its corresponding gene, e.g. development of reagents (antibodies, expression vectors, cell lines, congenic and transgenic mice) that may be used in the diagnosis and treatment of atherosclerosis and related disease states. Methods are claimed for diagnosing a predisposition to atheroslerotic disease (by determining the antioxidant activity of AOP2 polypeptide in a sample), for screening compounds for AOP2 stimulatory activity, anti-oxidant, stimulatory activity or anti-atherosclerotic activity, and for increasing AOP2 function in a cell by providing a nucleic acid encoding AOP2. It is possible to employ AOP2 protein and DNA compositions in the treatment of oxidative damage, atherosclerosis and heart disease. Sequence 224 AA;

PS Disclosure; Page 25; 36pp; English.

CC 1-Aminocyclopropane carboxylase oxidase (ACC oxidase) GEF-E-1
 CC (W09880) is an enzyme involved in the biosynthesis of ethylene in
 CC plants. In a method for the commercial antisense genes for ACC
 CC plants, Agrobacterium vectors carrying antisense genes for ACC
 CC oxidase (see also W66248) or ACC synthase (see also W66246-47) are
 CC used to inoculate petiole explants of a mother plant, pref.
 CC Pelargonium x domesticum. The resulting callus is cultured and
 CC used to regenerate transgenic plants. The antisense genes prevent
 CC ACC oxidase or ACC synthase expression and hence ethylene formation
 CC and fruit ripening.
 Sequence 318 AA;

Query Match 12.4%; Score 85; DB 1; Length 318;
 Best Local Similarity 17.5%; Pred. No. 1.64e+01; Indels 1; Gaps 1;
 Matches 11; Conservative 23; Mismatches 28; Indels 1; Gaps 1;

Db 70 ASKGLEGVEVVED-LDWESTFLKLHLPESNISQVPLDQEYRKVMEKAALKLAEEL 128
 Qy 32 SSIDLNSVIENTDGSILKWPNSNIECTCRNTOLAGSSEELAAECKTRQQFVSTKINLDDHI 91
 Db 129 LNU 131
 Qy 92 ANI 94

RESULT 12
 ID W55071; standard; Protein: 258 AA.
 AC W55071.
 DT 02-OCT-1998 (first entry)
 DE Streptococcus pneumoniae SP0012 protein.
 KW Streptococcus pneumoniae; antigen; vaccine; infection; diagnosis;
 KW detection; pneumonia; otitis media; meningitis.
 OS W09818530-A2.
 PN 07-MAY-1998.
 PR 31-OCT-1996; US-029960.
 PA (HUMA-) HUMAN GENOME SCI. INC.
 PI Choi GH, Hromockyj A, Johnson LS, Kunsch CA;
 DR WPI: 98-27224/24.
 DR N-PSDB: V27331.

PT Nucleic acid encoding antigenic peptide(s) from Streptococcus pneumoniae - or their epitope-containing fragments, useful in protective or therapeutic vaccines, and for diagnosis

PS Claim 11; Page 52; 11pp; English.

CC The present sequence represents a protein from Streptococcus pneumoniae. The nucleic acid sequence encoding the Streptococcus pneumoniae protein can be useful in vaccines for inducing protective antibodies against Streptococcus pneumoniae, for treatment or prevention of infection e.g. pneumonia, otitis media or meningitis. Probes based on the nucleic acid are used to detect Streptococcus infection (by usual hybridisation or amplification methods), also for isolating Streptococcus genes or their allelic variants. The protein can be used similarly to detect specific antibodies in standard immunoassays, especially for diagnosing or monitoring infections. Antibodies which bind the protein are used to detect corresponding antigens, to purify the protein and for passive immunisation (optionally coupled to a toxin). Vaccines are administered, e.g. by injection, orally or through the skin, typically at 0.01-1000 (especially 10-300) µg/ml per dose.

Sequence 258 AA;

Query Match 12.0%; Score 82; DB 1; Length 258;
 Best Local Similarity 27.1%; Pred. No. 2.86e+01; Indels 4; Gaps 4;
 Matches 13; Conservative 18; Mismatches 13; Indels 4; Gaps 4;

Db 36 QKDGSYAGFDIDILATAFEVKYITVNWQPIDW-DL-KEAELTKGTIDL 81
 Qy 24 RTNGGNTSSSTDLNS-VTENVGSILKWPNSNIECTCRNTOAL-GSSSL 69

RESULT 13
 ID W30662; standard; Protein: 354 AA.
 AC W30662;

